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What is claimed is:

- 1. A communication apparatus having a plurality of input and output ports for handling a fixed-length packet,
- wherein for each of a first and a second connections identified by an identifier of said fixed-length packet from said input port, a time interval, during which said fixed-length packet is output, is controlled so that the time interval becomes equal to or longer than a given interval.
 - 2. A communication apparatus according to Claim 1, wherein during the time when a fixed-length packet having a first value as an identifier of said first connection is required to be transmitted to said output port, a fixed-length packet having a second value as an identifier of said first connection can be transmitted to an output port according to predetermined rules.
 - 3. A communication apparatus according to Claim 1, wherein during the time when a fixed-length packet having a first value as an identifier of said second connection is required to be transmitted to said output port, a fixed-length packet having a second value as an identifier of said second connection can be transmitted to an output port according to predetermined rules.
 - 4. A communication apparatus having a plurality of

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input and output ports for handling a fixed-length packet, said communication apparatus comprising:

- a first means for accumulating said fixed-length packet from said input port;
- a second means for identifying a first and a second connections by an identifier of said fixed-length packet from said input port; and
 - a third means for controlling a time interval, during which said fixed-length packet accumulated in said first means is read, so that the time interval becomes equal to or longer than a given interval, for each of said first connection and said second connection.
 - 5. A communication apparatus according to Claim 4, wherein said third means controls a time interval, during which said fixed-length packet accumulated in said first means is read, using a transmission interval and a delay variation value that have been predefined for said fixed-length packet.
- 6. A communication apparatus according to Claim 4,
 wherein said third means controls a time interval so that,
 during the time when a fixed-length packet having a first
 value as an identifier of said first connection is
 required to be transmitted to said output port, a fixedlength packet having a second value as an identifier of
 said first connection can be transmitted to an output port

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according to predetermined rules.

- 7. A communication apparatus according to Claim 4, wherein said third means controls a time interval so that, during the time when a fixed-length packet having a first value as an identifier of said second connection is required to be transmitted to said output port, a fixed-length packet having a second value as an identifier of said second connection can be transmitted to an output port according to predetermined rules.
- 8. A communication apparatus having a plurality of input and output ports for handling a fixed-length packet, comprising:

a controller for determining transmission scheduled time of each of said fixed-length packets according to predetermined rules for a connection identified by an identifier of the fixed-length packet from said input port.

- 9. A communication apparatus according to Claim 8, wherein said controller determines said transmission scheduled time, using a transmission interval and a delay variation value that have been predefined for said fixed-length packet.
- 10. A communication apparatus according to Claim 8, wherein said controller selects a first connection when the transmission scheduled time has come; and said controller selects a second connection if there is no

fixed-length packet to be transmitted for said first connection.